

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB2004/002165

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K14/47 C12N15/12 A61K47/42 A61K38/17 A61P35/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, Sequence Search, WPI Data, BIOSIS, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 94/03597 A (DUCHESNE MARC ; TOCQUE BRUNO (FR); RHONE POULENC RORER SA (FR); SCHWEI) 17 February 1994 (1994-02-17)	1-5, 10-22, 29-31
Y	claims; figures 1-3; examples 2,3; sequence 5	6-9
X	& US 6 180 362 B1 (DUCHESNE MARC ET AL) 30 January 2001 (2001-01-30)	1-5, 10-22, 29-31
	claims; examples; sequence 6	
X	WO 03/018630 A (FRENCH JULIET ; KENNEDY DEREK (AU); UNIV GRIFFITH (AU); HART DEREK (AU) 6 March 2003 (2003-03-06)	1-3, 10-12, 16-19, 21,29,31
	page 50, line 23 - page 51, line 7; claims; figure 2; sequence 6	
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

21 October 2004

Date of mailing of the international search report

02/11/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DUCHESNE M ET AL: "Identification of the SH3 domain of GAP as an essential sequence for Ras_GAP-mediated signaling"</p> <p>SCIENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,, US, vol. 259, 22 January 1993 (1993-01-22), pages 525-528, XP002092187</p> <p>ISSN: 0036-8075</p> <p>abstract; figure 2</p> <p>-----</p>	1,2, 10-16, 29,31
X	<p>YANG JIANG-YAN ET AL: "Antiapoptotic signaling generated by caspase-induced cleavage of RasGAP"</p> <p>MOLECULAR AND CELLULAR BIOLOGY, vol. 21, no. 16, August 2001 (2001-08), pages 5346-5358, XP002296743</p> <p>ISSN: 0270-7306</p> <p>cited in the application</p>	1,2, 10-16, 26-31
Y	<p>page 5351, left-hand column, paragraph 2 -</p> <p>page 5352, right-hand column, paragraph 1; figures</p> <p>page 5354, left-hand column, paragraph 2 -</p> <p>right-hand column, paragraph 5</p> <p>-----</p>	23-25
Y	<p>LEBLANC VERONIQUE ET AL: "Ras-GTPase activating protein inhibition specifically induces apoptosis of tumour cells"</p> <p>ONCOGENE, vol. 18, no. 34, August 1999 (1999-08), pages 4884-4889, XP002296744</p> <p>ISSN: 0950-9232</p> <p>cited in the application</p> <p>the whole document</p> <p>-----</p>	23-25
Y	<p>SCHWARZE S ET AL: "In vivo protein transduction: delivery of a biologically active protein into the mouse"</p> <p>SCIENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,, US, vol. 285, no. 5433, 3 September 1999 (1999-09-03), pages 1569-1572, XP002140133</p> <p>ISSN: 0036-8075</p> <p>cited in the application</p> <p>the whole document</p> <p>-----</p>	6-9
A	<p>YANG JIANG-YAN ET AL: "A subset of caspase substrates functions as the Jekyll and Hyde of apoptosis."</p> <p>EUROPEAN CYTOKINE NETWORK, vol. 13, no. 4, December 2002 (2002-12), pages 404-406, XP008035485</p> <p>ISSN: 1148-5493</p> <p>cited in the application</p> <p>the whole document</p> <p>-----</p>	
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>YANG JIANG-YAN ET AL: "The RasGAP N-terminal fragment generated by caspase cleavage protects cells in a Ras/PI3K/Akt-dependent manner that does not rely on NFkappaB activation" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 277, no. 17, 26 April 2002 (2002-04-26), pages 14641-14646, XP002296745 ISSN: 0021-9258 cited in the application the whole document</p>	
A	<p>FELDMANN P ET AL: "control of growth and differentiation by drosophila rasgap, a homolog of p120 ras-gtpase-activating protein" MOLECULAR AND CELLULAR BIOLOGY, AMERICAN SOCIETY FOR MICROBIOLOGY, WASHINGTON, US, vol. 19, no. 3, March 1999 (1999-03), pages 1928-1937, XP002255964 ISSN: 0270-7306 the whole document</p>	
A	<p>PRENDERGAST G C ET AL: "RAS REGULATORY INTERACTIONS: NOVEL TARGETS FOR ANTI-CANCER INTERVENTION" BIOESSAYS, CAMBRIDGE, GB, vol. 16, no. 3, March 1994 (1994-03), pages 187-191, XP001181926 ISSN: 0265-9247 the whole document</p>	
A	<p>WO 99/65947 A (KENIGSBURG MIREILLE ; DUCHESNE MARC (FR); BARLAT ISABELLE (FR); PARKER) 23 December 1999 (1999-12-23) cited in the application claims; examples</p>	

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### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 21-28  
because they relate to subject matter not required to be searched by this Authority, namely:  
Rule 39.1(1v) PCT - Method for treatment of the human or animal body by therapy
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
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			CA	2141061 A1	17-02-1994
			EP	0652952 A1	17-05-1995
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			JP	7509609 T	26-10-1995
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			EP	1427754 A1	16-06-2004
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			EP	1087997 A2	04-04-2001
			WO	9965947 A2	23-12-1999
			HU	0103152 A2	28-12-2001
			JP	2002518001 T	25-06-2002